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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Joo-Ho KIM et al.

Application No.:

Group Art Unit:

Filed: September 28, 2004

Examiner:

For: RECORDING METHOD USING REACTION AND DIFFUSION, RECORDING MEDIUM  
RECORDED ON USING THE RECORDING METHOD, AND  
RECORDING/REPRODUCING APPARATUS FOR THE RECORDING MEDIUM

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ Form PTO-1449.
- 1b. ☒ Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications for applications filed on or after June 30, 2003, in accordance with OG Notice of August 5, 2003.
- 1c. ☐ English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
- 1d. ☒ English language translation (Abstract Only) attached to the non-English language publications.
- 1e. ☐ Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
- 1f. ☒ List of Copending Applications (ATTACHMENT 1(f), hereto).
- 1g. ☐ List of Additional Submitted Documents (ATTACHMENT 1(g), hereto).

2. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b):

(Check either Item 2a or 2b or 2c or 2d)

- 2a. ☐ Within three months of the filing date of a national application;
- 2b. ☐ Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application.
- 2c. ☒ Before the mailing of a first Office Action on the merits; or
- 2d. ☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.

3. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the period specified in paragraph 2 above but before the mailing date of any of a Final Office Action under § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise closes prosecution in the application, AND

*(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)*

- 3a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; OR  
3b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:  
☐ enclosed.  
☐ to be charged to Deposit Account No. 19-3935.

4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND

- 4a. ☐ The § 1.97(e) Statement in Item 5 below is applicable; AND  
4b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:  
☐ enclosed.  
☐ to be charged to Deposit Account No. 19-3935.

5. ☐ Statement under § 1.97(e) *(applicable if Item 3a or Item 4 is checked)*

*(Check either Item 5a or 5b)*

- 5a. ☐ In accordance with 37 CFR §1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.  
5b. ☐ In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. ☐ This is a continuation/divisional/continuation-in-part application under 37 CFR § 1.53(b).

*(Check appropriate Items 6a and/or 6b)*

- 6a. ☐ Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. \_\_\_, filed on \_\_\_, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).  
6b. ☐ Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. \_\_\_, filed on \_\_\_, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.

7. ☐ This is a Request for Continued Examination under 37 CFR § 1.114.  
(Check either Item 7a or 7b)
- 7a. ☐ The Issue Fee has not been paid.
- 7b. ☐ A Petition to Withdraw from issue under 37 CFR §1.313(c) is filed concurrently herewith or has been granted. A continuation application under 37 CFR § 1.53(d) or Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee is proper in accordance with 37 CFR § 1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.
8. ☐ This is a Supplemental Information Disclosure Statement.  
(Check either Item 8a or 8b)
- 8a. ☐ This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f) supplements the Information Disclosure Statement filed on \_\_\_\_\_. A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on \_\_\_\_\_.
- 8b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR § 1.97 and 1.98, mailed \_\_\_\_\_. (MPEP 609 C(1), Form & 6.49, Rev. 1, Feb. 2000, pp. 600-107)
9. ☒ In accordance with 37 CFR § 1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:  
(Check appropriate Items 9a, 9b, 9c and/or 9d)
- 9a. ☐ satisfied for the non-English language publication(s) cited on the enclosed "English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed., Rev. 2)
- 9b. ☐ set forth in the application.
- 9c. ☒ satisfied because an English language translation (Abstract Only) is attached to the non-English language publications.
- 9d. ☐ enclosed as Attachment 1(e), hereto.
10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).


Serial No.:

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS &amp; HALSEY LLP

Dated: 9/28/04  
1201 New York Avenue, N.W.  
Suite 700  
Washington, D.C. 20005  
Telephone: (202) 434-1500  
Facsimile: (202) 434-1501

By:   
Michael D. Stein  
Registration No. 37,240

**ATTACHMENT 1(f)**

|                                       |                      |                 |
|---------------------------------------|----------------------|-----------------|
| <b>LIST OF COPENDING APPLICATIONS</b> | ATTORNEY DOCKET NO.  | APPLICATION NO. |
|                                       | 1793.1503            |                 |
|                                       | FIRST NAMED INVENTOR |                 |
|                                       | Joo-Ho KIM et al.    |                 |
|                                       | FILING DATE          | GROUP ART UNIT  |
|                                       | September 28, 2004   |                 |

The following, prior-filed, copending U.S. patent application(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application. Pursuant to 37 CFR 1.98(a)(2)(iii), a copy of the identified copending application(s) is provided.

It is requested that the Examiner acknowledge his consideration of application(s) below-listed by initialling same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.

**U.S. PATENT APPLICATION DOCUMENTS**

| *EXAMINER<br>INITIAL |   | U.S. SERIAL NO. | FILING DATE | NAME                 | ASSIGNEE                      |
|----------------------|---|-----------------|-------------|----------------------|-------------------------------|
|                      | 1 | 09/620,469      | 07/20/00    | Du-seoop YOON et al. | Samsung Electronics Co., Ltd. |
|                      | 2 |                 |             |                      |                               |
|                      | 3 |                 |             |                      |                               |
|                      | 4 |                 |             |                      |                               |
|                      | 5 |                 |             |                      |                               |
|                      | 6 |                 |             |                      |                               |
|                      | 7 |                 |             |                      |                               |
|                      | 8 |                 |             |                      |                               |

|  |                 |
|--|-----------------|
| EXAMINER   | DATE CONSIDERED |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p> |                 |

10/509367

DT12 Rec'd PCT/PTO 28 SEP 2004

Sheet 1 of 2

|   |                      |                 |
|---|----------------------|-----------------|
| FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br><b>LIST OF REFERENCES CITED BY APPLICANT</b><br><br><i>(Use several sheets if necessary)</i> | ATTORNEY DOCKET NO.  | APPLICATION NO. |
|   | 1793.1503            |                 |
|   | FIRST NAMED INVENTOR |                 |
|   | Joo-Ho KIM et al.    |                 |
|   | FILING DATE          | GROUP ART UNIT  |
|   | September 28, 2004   |                 |

**U.S. PATENT DOCUMENTS**

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE  | NAME              | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|----------------------|----|-----------------|-------|-------------------|-------|---------------|----------------|
|                      | AA | 5,981,014       | 11/99 | Tsukagoshi et al. |       |               |                |
|                      | AB | 5,419,999       | 05/95 | Uejima            |       |               |                |
|                      | AC | 5,786,117       | 07/98 | Hoshi et al.      |       |               |                |
|                      | AD | 6,190,750       | 02/01 | Wierenga et al.   |       |               |                |
|                      | AE | 5,761,188       | 06/98 | Rosen et al.      |       |               |                |
|                      | AF | 5,768,221       | 06/98 | Kasmi et al.      |       |               |                |
|                      | AG | 5,348,783       | 09/94 | Ohno et al.       |       |               |                |
|                      | AH | 5,569,517       | 10/96 | Tominaga et al.   |       |               |                |
|                      | AI | 5,604,003       | 02/97 | Coombs et al.     |       |               |                |
|                      | AJ | 5,255,260       | 10/93 | Yamada et al.     |       |               |                |
|                      | AK | 6,181,650       | 01/01 | Ichihara et al.   |       |               |                |
|                      | AL | 6,329,036       | 12/01 | Kikukawa et al.   |       |               |                |

**OTHER REFERENCES** (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |  |
|--|----|--|
|  | AM | Rigid bubble pit formation and huge signal enhancement in super-resolution near-field structure disk with platinum-oxide layer, APPLIED PHYSICS LETTERS, Volume 81, Number 25, 16 DECEMBER 2002, T. Kikukawa, T. Nakano, T. Shima, and J. Tominaga |
|  | AN |  |

|   |                 |
|---|-----------------|
| EXAMINER  | DATE CONSIDERED |
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| FORM PTO-1449  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE | ATTORNEY DOCKET NO.<br>1793.1503          | APPLICATION NO. |
| LIST OF REFERENCES CITED BY APPLICANT<br><br>(Use several sheets if necessary) |  | FIRST NAMED INVENTOR<br>Joo-Ho KIM et al. |                 |
|  |  | FILING DATE<br>September 28, 2004         | GROUP ART UNIT  |

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT<br>NO. | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|----------------------|----|-----------------|------|------|-------|---------------|----------------|
|                      | BA |                 |      |      |       |               |                |
|                      | BB |                 |      |      |       |               |                |
|                      | BC |                 |      |      |       |               |                |
|                      | BD |                 |      |      |       |               |                |
|                      | BE |                 |      |      |       |               |                |
|                      | BF |                 |      |      |       |               |                |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NO. | DATE  | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION<br>YES NO |  |
|--|----|-----------------|-------|---------|-------|---------------|-----------------------|--|
|  | BG | 09-007224       | 01/97 | Japan   |       |               | Abs.                  |  |
|  | BH | 11-134713       | 05/99 | Japan   |       |               | Abs.                  |  |
|  | BI | 03-157830       | 07/91 | Japan   |       |               | Abs.                  |  |
|  | BJ | 5-258345        | 10/93 | Japan   |       |               | Abs.                  |  |
|  | BK | 9-128807        | 05/97 | Japan   |       |               | Abs.                  |  |
|  | BL | 9-17028         | 01/97 | Japan   |       |               | Abs.                  |  |
|  | BM | 8-63789         | 03/96 | Japan   |       |               | Abs.                  |  |
|  | BN | 6-251422        | 09/94 | Japan   |       |               | Abs.                  |  |

|   |                 |
|---|-----------------|
| EXAMINER  | DATE CONSIDERED |
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